FLEXIBLE STAMPER, ROLL-SHAPED STAMPER AND PRODUCTION OF SUBSTRATE FOR OPTICAL DATA RECORDING MEDIUM

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- european:

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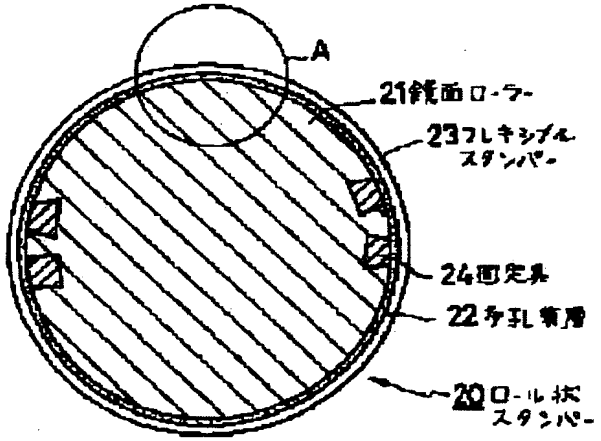
Abstract of **JP5200757**

PURPOSE:To prevent the generation of an uneven flaw or transfer irregularity in the fine uneven pattern of a substrate for a data recording medium molded by a roller group molding method by providing a heat insulating layer to the interior of a flexible stamper. CONSTITUTION:A photoresist film is formed on a glass substrate and exposed and developed to form an uneven pattern. A conductive film and a metal film due to an electroforming method are successively formed thereon. After the surface of the metal film is ground, a heat insulating layer 2 such as a polyimide film having heat conductivity lower than that of the metal film is formed. The conductive film and the metal film are again formed on the layer 2 to be ground and the glass substrate is released to form a flexible stamper 1. The fixing jig 24 of this stamper 1 is welded to be fitted in the groove provided roller to form a roll-shaped stamper for molding a roller group. Further, a flexible stamper 23 may be formed by a known method to provide a porous layer 22 between the stamper 23 and a mirror surface roller 21.



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